

## Clean Room Proposal for Bld 77 RM 142C

### Prepare area (LBNL)

- Set new crane limits
- Remove all equipment
- Remove all unnecessary services from walls
- Clean and paint walls and ceiling
- Plug cracks in floor, remove high spots and seal
- Install conducting floor  $2.4 \times 10^4$  to  $1 \times 10^6$  ohms / square
- Chilled water
- Power 110vac 20kw / 220 for AC
- Compressed air 80psig, 30cfm, 1micron filter

### Clean Room (vendor)

Description drawing ag0229

#### Specifications

- Class 1,000
- Lighting 100 foot candles @ 30" above floor " Fluorescent "
- Noise level inside clean room 50 db
- Number of occupants 10 max
- Equipment load 20 kw of 110vac
- Inside vertical clearance 10 feet
- Outside vertical clearance 13 + feet
- HVAC equipment adjacent to clean room
- Heat removed by chilled water
- Heat supply electrical or hot water
- All pass through 12" x 12"
- Windows 3/16 tempered safety glass 3' H x 4' W
- Doors 3' x 7' with auto close and lockable to outside
- Walls 2 hour fire rated
- Air return at floor level with pre filter
- Seismic, room bolted to floor or as required by LBNL
- Sprinklers internal to room wet or dry
- Air supply 80psig every 10 feet, 30cfm total, 1 micron filter
- Electrical supply 4 plex every 5 feet
- Computer / Phone conduit and boxes no wiring every 10 feet
- Fire alarm conduit
- Intercom / PA conduit
- Temperature control 68 deg F +/- 2 deg F
- Control, Display and Record temperature and positive pressure on room
- Display and Record humidity, cleanliness level and filter differential
- Room access should be by LBNL card key